

## **ABSTRACT OF THE DISCLOSURE**

Methods and systems for forming face masks are disclosed. Embodiments may  
5 utilize computer-aided design and computer-aided manufacturing to form custom fitted  
face masks. System software may be configured to acquire facial topography information,  
design a mask based on the topography information, and send mask information to a  
computerized manufacturing device. The software may communicate with a scanning  
device for facial topography acquisition and a milling machine for pattern fabrication. In  
10 an embodiment, the scanning device may include a linear scan non-contact laser imager.  
In an embodiment, the scanning device may be manually moved with respect to an  
individual being scanned, thereby eliminating the need for motive apparatus. In such  
embodiments, position information may be determined based on data from a position  
sensor coupled to the scanning device.

15